

REPORT
OF THE
BOARD OF GOVERNORS
AND
THE PRESIDENT
OF THE
UNIVERSITY OF ALBERTA
ALBERTA

1937-38



REPORT

BOARD OF GOVERNORS

THE PRESIDENT

UNIVERSITY OF ALBERTA

ALBERTA



To the Lieutenant Governor in Council.

SIR:

On behalf of the Board of Governors of the University of Alberta, and in accordance with section 29, subsection 2, of an Act respecting the University of Alberta, the undersigned have the honour to transmit through the Minister of Education the Report of the University of Alberta, setting forth the receipts and expenditures for the year ending March 31st, 1938, and the investments as they stood at the end of the fiscal year.

Appended to the Report is the Report of the President of the University, in which the academic work of the University for the year July 1st, 1937, to June 30th, 1938, is dealt with in detail.

HORACE HARVEY, *Chairman.*

W. A. R. KERR, *President.*

Financial Statement

UNIVERSITY OF ALBERTA

BALANCE SHEET AS AT MARCH 31, 1938

ASSETS

FIXED:

Buildings and equipment in service:

Land, buildings and plant \$3,786,357.46
Furnishings and equipment 840,785.05

\$4,627,142.51

CURRENT:

Cash on hand and in transit \$ 5,276.95

Accounts receivable:

Sundry debtors \$ 15,931.67

Less: Reserve for uncollectible

accounts 2,000.00

\$ 13,931.67

University Hospital 5,249.89

19,181.56

1,562.50

Interest accrued

Inventories and supplies:

Merchandise held for re-sale \$ 19,037.90

Supplies 7,728.67

26,766.57

52,787.58

OTHER ASSETS:

Livestock on hand \$ 26,802.00

Deposits:

Province of Alberta Insurance Fund \$ 3,000.00

Workmen's Compensation Board 912.18

3,912.18

30,714.18

PREPAYMENTS:

Insurance unexpired 3,228.76

DEFERRED CHARGES AND CAPITAL LOSSES:

Bond discount and expense \$ 247,477.32

Artificial gas plant abandoned 12,282.01

Sundry 416.15

260,175.48

\$4,974,048.51

TRUST:

Cash on hand \$ 165.03

Cash in bank 45,561.31

\$ 45,726.34

Investments in bonds, shares and savings certificates:

At par value \$586,141.86

At book value 111,880.54

At cost 31,145.62

729,167.84

Loans receivable

2,387.05

Mortgages receivable

54,605.22

Real estate, nominal value

12.00

831,898.45

\$5,805,946.96

LIABILITIES

CAPITAL AND SURPLUS:

Advances from Province of Alberta \$4,805,633.89

Capital surplus arising from:

Equipment donated \$ 13,192.63

Sundry sales and bequests 2,073.98

Income contributions to library 95,615.82

\$110,882.43

Deduct Revenue Deficit as per State-
ment No. 79

22,936.11

87,946.29

\$4,893,580.18

CURRENT:

Bank overdraft	\$ 20,485.46	
Accounts payable—Sundry creditors	21,963.31	
		<u>42,448.77</u>

DEFERRED:

Fees and other revenue paid in advance		6,156.50
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RESERVES:

Premium on Rockefeller grant	\$ 18,221.66	
Unexpended library fees and donations	11,687.80	
Province of Alberta insurance fund	995.24	
Workmen's Compensation Board	958.36	
		<u>31,863.06</u>
		<u>\$4,974,048.51</u>

TRUST:

Rockefeller Foundation	\$ 500,000.00	
Escheated estates	154,826.24	
Carnegie grant in aid of pension fund	67,643.47	
Sundry endowments, bequests and scholarship grants and amounts administered or held for affiliated organizations and others	107,659.87	
Trust accounts payable	1,768.87	
		<u>831,898.45</u>
		<u>\$5,805,946.96</u>

Edmonton, Alberta, September 6, 1938.

Audit of the books of account of the University of Alberta has been completed for the year ended March 31, 1938, and the above balance sheet and accompanying statement of revenue and expenditure are in accordance therewith.

Land, buildings and plant are shown at original cost without provision for depreciation.

An inventory of furnishings and equipment was not available at March 31, 1938. No provision has been made for depreciation, but University officials are of the opinion that the value of furnishings and equipment has been maintained by renewals and additions from revenue.

Trust fund investments include Province of Alberta past due debentures and savings certificates of a par value of \$35,125.00. Interest on Province of Alberta direct and guaranteed issues was accepted during the year ended March 31, 1938, at reduced rates set forth in the Province's Order-in-Council No. 734/36.

Subject to the foregoing remarks, I certify that, in my opinion, the above Balance Sheet is properly drawn up so as to show the financial position of the University of Alberta as at March 31, 1938, and the accompanying statement of revenue and expenditure correctly sets forth the result of operations for the year ended at that date.

CHAS. M. LANG, C.A.,
Acting Provincial Auditor.

UNIVERSITY OF ALBERTA

STATEMENT OF REVENUE AND EXPENDITURE FOR THE YEAR ENDED MARCH 31, 1938

REVENUE

Province of Alberta:

Grant	\$399,650.00	
Debt charges	132,738.90	
		<u>\$532,388.90</u>
Rockefeller Foundation		12,500.00
General and summer school fees		233,153.58
Library fees and donations		8,648.20
Garage rentals		827.79
Operating departments' net revenue:		
	Revenue.	Expenditure.
Rentals	\$ 43,138.57	\$ 27,561.92
Dining room	64,368.46	58,899.99
Bookstore and post office	44,140.19	39,151.23
Printing department	30,798.46	23,031.53
	<u>\$182,445.68</u>	<u>\$148,644.67</u>
		<u>\$821,319.48</u>

EXPENDITURE

Salaries:

Total salaries and wages	\$621,039.69	
Less: Charged to departments	257,661.97	
		<u>\$363,377.72</u>
Debt charges		132,738.90
Operating departments' net expenditure:		
	Expenditure.	Revenue.
Power plant	\$ 50,753.35	\$ 24,237.59
Works	35,956.78	35,759.90
Provincial and industrial laboratories	49,565.39	13,840.45
Instruction laboratories	20,955.54	5,746.16
Department of Agriculture	114,172.54	22,102.05
Department of Extension	40,007.57	16,732.10
	<u>\$311,411.17</u>	<u>\$118,418.25</u>
Maintenance and repairs		40,654.33
Insurance		2,843.89
Calendars, press bulletins, etc.		3,359.48
Summer school		9,236.11
Printing and stationery		2,430.79
Telephone and telegrams		2,241.91
Sundries		2,127.02
Library		1,930.46
Special clinical services		17,500.00
Postage and excise		1,032.71
Travelling expenses		2,226.58
Upkeep of cars		1,097.94
Physical education		273.07
Office machines, inspection, repairs and replacements		255.64
Research Council		14,921.83
Scholarships and medals		188.01
Pensions		19,292.90
Bank interest		585.40
Provost		774.33
Rent		1,306.00
Provision for library extension		8,648.20
		<u>\$822,036.14</u>

Deficit for the year ended March 31, 1938 \$ 716.66

The Report of the President

I have the honour to submit the following report on the academic work of the University of Alberta for the year ending June 30th, 1938.

Before submitting statistics concerning registration and others matters relating to the student body, together with the annual reports of administrative officers, I should like to make some general observations touching the work of the University as a whole during the past year.

There have been an unusually large number of changes in the academic staff during the period under review resulting from death, resignation and retirement.

A grievous loss has been sustained by the University in the death of Dr. John Darley Harrison. From the foundation of the University Dr. Harrison, a pioneer physician and surgeon of Edmonton, associated himself actively in the upbuilding of this institution, especially interesting himself in the development of our medical faculty. At the time of his death he had been, in addition, for many years vice-chairman of the Board of Governors. A man of high professional competence, he was also a man of lovable and humane character, and he will be much missed as a loyal and influential friend of this University.

I regret deeply also to record the untimely death of Gretta Simpson, a graduate of our own and for many years a trusted and much loved worker in the department of Bacteriology and Hygiene.

Through retirement on pension we have lost the valued services of Professor Daniel G. Revell, since its inception head of the department of Anatomy, and of Mr. James Adam, associate professor of Drawing. Both of these scholars were the original appointees in their respective fields of work and have rendered long and noteworthy service to the University. As in health and strength they pass the torch to younger hands, their associates wish them in their well-earned leisure the meed of happiness and length of days.

As announced during the year, Dr. W. H. Alexander has resigned his position as dean of the Faculty of Arts and Sciences and professor of Classics. His going represents a serious loss in our personnel, for he was the senior man on the staff and during a period of thirty years has given this institution outstanding service.

Not only over this long time has Dr. Alexander been a popular teacher and efficient administrator, but he has also made a distinguished reputation as a technical scholar in the well-gleaned field of classical textual criticism. He has taken, too, an active part in many questions of general public interest in this province. His colleagues and also his many friends beyond the confines of the University regret deeply his departure, and as he assumes his high post as senior professor of Latin in the University of California, can only wish him and his family every happiness in their new home in the great and friendly democracy on our southern border.

As dean of the Faculty of Arts and Sciences Dr. Alexander will be succeeded by Professor George M. Smith, head of the department of History, as head of the department of Classics, by Professor W. G. Hardy, and as Director of the Summer Session by Professor E. W. Sheldon, long associated with the work.

After being more than two years on loan to the Adult Education Association, Mr. Edward A. Corbett, the much valued director of our Extension Department, resigned from the University's service in order to devote all his energies to the development of this great movement. Mr. Donald Cameron meantime is carrying on as Acting Director.

After two years absence on leave Professor F. J. Lewis decided to remain in Egypt, where he had an important investigation under way, and Professor E. H. Moss was promoted in his stead to the headship of the department of Botany.

As is the law in a growing organism, change is inevitable in our personnel, and I do not think that anything in my function transcends in importance the recruitment and maintenance of the professional and moral quality of the academic staff. I should like, therefore, though I must be brief, to allude to some further changes which will come into effect in the coming autumn.

I may say that the general policy has been adopted of replacing senior vacancies by promotion from within—where this procedure is possible and in the highest interests of the institution—and filling up below with junior appointments. This plan tends to maintain as between the members of the various departments a desirable gradation of age.

To compensate, therefore, for Professor Revell's retirement Professor R. F. Shaner has been promoted to the headship of the department of Anatomy and Dr. H. E. Rawlinson, a graduate of our own who has made for himself a brilliant reputation in the East and is at present assistant professor of Histology in McGill University, has been appointed associate professor of Anatomy in this institution.

To complete the personnel in the department of Classics depleted by Professor Alexander's resignation, Dr. Walter H. Johns, B.A. (University of Western Ontario), Ph. D. (Cornell), has been appointed lecturer in Classics.

In the department of Poultry Mr. D. R. Clandinin, M.Sc. (U.B.C.), has been appointed to a lectureship.

To fill a vacancy in English Mr. M. M. Ross, B.A. (U.N.B.), M.A. (Toronto), has been appointed sessional instructor in this department.

To replace associate professor James Adam, Mr. W. W. Preston, B.Sc. (Queen's), joins our staff in Civil Engineering as instructor in Drawing.

As sessional assistant in Botany Miss Margaret Landes, who holds a Master's degree from Saskatchewan University, will give us help and for similar assistance in Zoology Miss Margaret Macdonald, B.Sc. in Arts (Alberta), has been appointed.

The total registration as finally adjusted for the session of 1937-38 was 2,096, an increase of 27 over the preceding year; probably, in accord with the natural growth of the province, a normal rise. Fluctuations in various faculties and schools are not specially significant except in the case of the B.A. which shows a moderate decline. It must be remembered, however, that quotas are now attached to entering classes in Medicine and Applied Science restricting, as far as numbers

go, the intake of these two faculties. It will be recalled also that beginning with September last admission to all faculties of the University—except Agriculture—was raised to senior matriculation. The estimated loss of students for the one year affected by the change over is placed at sixty. Taking further into consideration the very serious economic situation in the summer and winter of 1937-38 our registration may be regarded as satisfactory.

During the past session, the following members of our staff have been absent on sabbatical leave: Professors Stanley Smith of the department of Physics, G. A. Elliott of the department of Political Economy, and John Macdonald of the department of Philosophy. All three are at present in Great Britain.

I should like, in view of possible misunderstanding by the public, to offer a word or two in explanation of the sabbatical leave system which now obtains in practically all important universities on this continent and in many in the British Isles.

In the first place leave is granted only when the professor concerned has been for a considerable time on the staff and further obligates himself to use the leave for study or investigation; secondly he must agree to accept a salary so reduced in relation to the length of service that the University suffers no financial loss through the substitution of necessary temporary assistance in the professor's absence. The advantages of this system to an institution such as ours are very real. We are situated far from the great centres of learning; our libraries and laboratories, due to youth and lack of funds, are necessarily limited and our staff, unless facilities for getting away are provided, are apt to feel isolated and run a considerable risk of going stale. We find, on the other hand, that men who accept the sacrifices involved in sabbatical leave come back refreshed to their tasks, bringing with them new ideas and the inspiration arising from vivifying contacts with the greatest living minds in their special fields of study or research. Naturally, the number of members of the staff who are absent in any given year must be strictly limited in order that the teaching and investigational work of the University as a whole may not suffer. Questions of this kind are always given the most careful thought by the Board of Governors, when applications for sabbatical leave are submitted for their consideration.

A word should also be said about the Banff and Olds Summer Schools, both of which I had the opportunity of visiting, while in operation.

First, touching the Banff School of Fine Arts, upwards of two hundred students, attracted from points as far apart as Toronto, Ontario, St. Louis, Mo., and Victoria, B.C., attended the School in 1937. I was deeply impressed with the future possibilities of the Banff School. The site is one of the most beautiful in America. The teaching staff have been selected with the utmost care, and the spirit of the student body a delight to come in contact with. Our chief difficulty has been the threatened demolition by the Park authorities of the Banff Hall Theatre. The structure, which has housed many of the School's activities, is old and admittedly in bad repair. It is, however, the only available hall in the town. This awkward problem may now happily be regarded as solved for the municipality has recently agreed to erect a hall in a central position in the town, and it gives me great pleasure to state that Sir Edward Beatty has generously offered on behalf

of the Canadian Pacific Railway Company to contribute \$2,500 through the University of Alberta towards the construction of the new hall. The gift is to be devoted to the provision of an especially well-equipped stage on which dramatic, musical and dance productions may be satisfactorily handled.

A more waiting attitude has to be adopted in my opinion towards the Olds School of Community Life. Unless the popular response—at least with respect to attendance—improves considerably which, in its second year and with a better general economic outlook may well happen, the continuance of the School will become a matter of careful re-consideration. However, as the purpose and effort of the Olds School of Community Life become more widely understood there is good hope that its registration will rise and its existence justify itself.

An increasing number of our students now take degrees in Arts and also in the professional faculties as a general educational preparation for life, and on graduating seek posts in the industrial and commercial world.

To meet this new situation and to render closer the relations between the University and the arena of business, the Board of Governors has sanctioned during the year, the establishment of an Appointments Board. The following leading citizens of Edmonton have kindly accepted membership on this body: Messrs. J. K. Hill, Manager of the Hudson's Bay Company; R. R. Brough, Manager, James Richardson and Sons; Robert Hill, one of our alumni, Manager of the Dominion Life Assurance Company; Frank Pike, Manager of the Bank of Montreal; V. A. Porter, Manager, International Harvester Company; C. S. Wallace, assistant to the Managing Director of the Edmonton Journal; A. West, Bursar of the University; the President of the University to act as chairman and Mr. G. B. Taylor, Assistant Registrar, as secretary. It is hoped that through the constitution of the Appointments Board the Provincial University may be better enabled to knit itself more closely into the life of the community it aims to serve.

Some 54 graduates of the University of Alberta are pursuing further advanced study in other universities in Canada, the United States, Great Britain and France, some as the result of scholarships awarded within the province, others after obtaining scholarships or fellowships from the universities where they are now pursuing a course of study. Alberta has every reason to be proud of these young scholars who have proved themselves well able to meet the severe open competition which appointments to these distinguished awards involves.

The University has again received a large number of gifts during the past session. These are not only appreciated for their value but also perhaps even more for the testimony they give to the sympathetic interest of the University's friends in her welfare. A detailed list of these gifts will be found elsewhere, but I should like here to refer to a few of the more important: a promise as already stated from Sir Edward Beatty on behalf of the Canadian Pacific Railway to contribute through the University \$2,500 towards the equipment of the stage in the new Banff theatre; \$500 each from the Alberta Wheat Pool and the United Grain Growers to assist in financing the Olds School of Community Life; \$500 from the F. W. Berk Company of London, England, in furtherance of Professor Henry's researches on the disinfection of seed grain; \$200 from the Boyce Thompson Institute of Yonkers, N.Y., in support of an investigation being carried on by

Professor Shoemaker of the department of Horticulture; from the International Harvester Company a film illustrating the historical evolution of the binder machine; a gold medal from the Hudson's Bay Company to be awarded in the department of Political Economy; a large number of gifts to the Geological Museum, valued at \$400; from Miss Maimie Simpson in memory of her sister, the late Gretta Simpson, an annual scholarship of the value of \$25.

About a year ago, the Grounds Committee was reconstituted with Dean Wilson as chairman and Professor Shoemaker as secretary. The instructions to the committee were to formulate a policy for the gradual development of the campus. It is true that at present funds are lacking for the carrying out of any large-scale betterments, but the idea is that anything done now from year to year should fit in with a general scheme comprising both beautification and utility.

Although but little time has passed since the committee took over its duties, it is already clear that even with meagre resources a great deal can be done and pleasant comment is already heard regarding the improved appearance of the grounds.

All universities worthy of the name possess three functions: the storage of knowledge already acquired, the dissemination of knowledge now in man's possession and the search for new knowledge. No one of these functions is to be prized at the expense of the other two. All three, harmoniously pursued, are necessary, if the life of the institution is to be abundant, unified and rounded. Library and museum space must be adequate, the teaching staff must be of the highest quality procurable in both mind and character; and, finally, it is imperative, if the intellectual life of this University is to be maintained, that reasonable facilities for research be available. In spite of the meagreness of our funds it gives me very great pleasure to be able to report that during the past year the number of published new contributions to knowledge made by our University staff amounted to seventy-eight. Now, this total, having in mind its quality, seems to me to be exceedingly creditable. Many of these investigations are related closely to the economic development of the Province of Alberta and, if the work were not carried on here, would be done nowhere.

The University of Alberta continues to grow, but I regret to say that our housing accommodation and our general equipment are not growing commensurably with it. The full-time academic staff shows an increase of only three since 1930-31, while the registration during that period has risen by 358. No new construction has been undertaken since the erection of the Medical Building, if we except St. Joseph's College, the money for which was raised privately. It is now therefore seventeen years since the Provincial Treasury has afforded this institution any easement of its increasingly crowded conditions. This year the Board of Governors endeavoured to secure a modest grant of capital funds in order to relieve the congested living conditions of the personnel of the department of Bacteriology and Hygiene and the associated Provincial Laboratory. While it is only right and fair to state that the Government has always shown itself most cordial and sympathetic towards the University's needs, it has regretfully not seen its way clear, due to the current financial situation, to accede at the present moment to the Board's request.

Sooner or later—and I trust sooner than later—this matter of overcrowding must be faced and a reasonable remedy found if the institution, which is the

daughter of the Province and the keystone of its cultural structure, is to continue effectively to serve her Alma Mater as she should and as she has the laudable ambition to do.

Since its foundation, now thirty eventful years ago, the University of Alberta has endeavoured unfalteringly through loyalty to the truth in all things to serve the government and people of this province. I trust that when another thirty years will have rolled by this institution will still be found to abide in the same proud faith.

The following are the statistics with reference to the teaching staff during the year:

Full-Time Staff:

*Professors	52
Associate Professors	14
Assistant Professors	12
Lecturers	12
Instructors	4
Demonstrators and Assistants	7
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Total	101

*3 on leave.

Part-Time Staff:

Professors	9
Associate Professors	8
Assistant Professors	6
Lecturers	23
Instructors	15
Demonstrators and Assistants	69
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Total	130

Library:

Librarian	1
Assistants	7
Sessional help	3
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Total	11

Extension Department:

Director	1
Librarian	1
Lecturer	1
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Total	3

Industrial Laboratory:

Director	1
Assistant	1
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Total	2

Department of Industrial Research:

*Research Professors	2
Assistants	2
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Total	4

*Under the direction of the Research Council of Alberta two professors and two assistants devote full time to research work. This work is carried on jointly by the Government of Alberta and the University.

REGISTRATION BY FACULTIES

As distributed in the various faculties and schools the number of students are as follows:

Total registration	2096
1. Arts and Sciences	709
B.A. and B.Sc.	387
B.Sc. in Pharmacy	9
School of Commerce	94
School of Household Economics	99
Auditors	17
Combined Courses:	
Arts and Medicine	59
Arts and Agriculture	1
Arts and Applied Science	2
Arts and Law	34
Arts and Architecture	1
Arts and Dentistry	6
	— 103
2. Applied Science	263
Chemical, Civil, Electrical, Mining and Architecture	260
Combined Courses:	
Arts and Engineering	2
Arts and Architecture	1
	— 3
3. Agriculture	92
Agriculture	91
Combined Courses: Arts and Agriculture	1
	—

4. Law	94	
Law	60	
Combined Courses: Arts and Law	34	
	—	
5. Medicine	497	
Medicine	221	
School of Dentistry	75	
School of Nursing	136	
Degree	53	
Diploma	83	
	—	
Combined Courses:		
Arts and Medicine	59	
Arts and Dentistry	6	
	—	65
6. School of Pharmacy		56
Degree	9	
Diploma	47	
	—	
7. School of Education		26
8. Divinity		9
9. Summer School (1937)		404
10. Short Course in Agriculture		22
11. Graduate Students		91
Arts and Sciences:		
M.A.	46	
M.Sc.	8	
B.Educ.	6	
	—	60
Agriculture: M.Sc.	17	
	—	17
Special graduate students	14	
		—
Total		2263
Less duplicates in Combined Courses, Summer Session, etc.		167
		—
Total		2096

SCHOLARSHIPS, PRIZES, MEDALS, GIFTS

Scholarships.

The *Gretta Simpson Memorial Scholarship*: Miss Maimie Simpson has offered an annual scholarship of the value of \$25 in memory of her sister, the late Gretta Shaw Simpson, to be awarded to the student in Household Economics who takes the second highest standing in the work as outlined for the second year, provided that the student passes all courses and obtains an average of not less than 75% of the work of the year.

Prizes.

Mr. Alfred Stiernotte, B.Sc., has given to the University an annual prize of \$25 in memory of his mother. This is to be awarded to the student with the highest standing in Chemistry 103 and to be known as the Louisa M. Stiernotte Memorial Prize in Chemistry 103.

Medals.

The Hudson's Bay Company of Edmonton have offered a gold medal in the School of Commerce to the graduating student in the Bachelor of Commerce course obtaining the highest average standing in the required courses in Political Economy 1, 10, 64, 66 and 73.

Gifts.

To the Department of Geology.—Several hundred specimens of ores, minerals, rocks, fossils and Indian artifacts, have been added to the collections by donations. Many of these donations were from former graduates of the University. The donations during the year represent a value of about \$400.

Twelve collections of ore suites have been received from nine of the graduates: A. Jackson '32—valuable collection from Broken Hill Mines, So. Rhodesia; M. L. Keith '34, Eastern Ontario; R. D. Macdonald '34—euxenite from Ontario; G. C. Hamilton '34—Elora Gold Mines, Ltd., Lac La Ronge and Yellowknife; J. Reid '35—Hollinger and Buffalo Ankerite Mines; W. Hargrave '35—Sudbury; G. V. McKee '35—Red Lake; B. Hurdle '36—Yellowknife; J. Mason '37—Goldfields.

Of the other donations, those of special value includes: agate and white topaz from Mrs. M. W. Terrell, Berwyn, Alberta; Indian earthen pot from the Henley district, Sask., from R. W. Mawdsley, Chinook, Alta.; mastodon tooth from the MacKenzie Delta, presented by Mr. A. W. Sawle; portion of a stone bowl, from R. M. Hastings, Heisler, Alberta.

A collection of approximately one hundred arrow-points and other Indian artifacts collected in Alberta has been loaned to the University for a year by Mr. R. Johnston, Cereal, Alberta.

The Alberta Wheat Pool and the United Grain Growers each donated the sum of \$500 towards the continuance of the Alberta School of Community Life for the year 1938. This is carried out under the direction of the Department of Extension.

The University is in receipt of a gift of \$200 from the Boyce Thompson Institute of Yonkers, N.Y., to provide for a fellowship in the department of Horticulture for research work on plant hormones.

Through the Chairman Emeritus of the Sun Life Assurance Company of Montreal, Mr. T. B. Macaulay, the sum of \$200 was received to assist Dr. William Rowan of the department of Zoology in his research work on the effects of light on reproduction of vertebrates.

The Edmonton Horticulture Society has made a further grant of \$25 to assist in the maintenance of the test plot of roses carried out under the direction of Dr. J. S. Shoemaker, Professor of Horticulture.

The sum of \$10.95, being the balance of their funds, was donated by the Calgary Dairy Club to the University of Alberta Department of Dairying for the purpose of furthering research in dairying under Dr. H. R. Thornton.

PUBLICATIONS BY STAFF

Department of Agricultural Engineering.

By Professor J. Macgregor Smith: "Some power problems of the farm", Bulletin No. 17 of the College of Agriculture, University of Alberta, third revised edition, March 11th, 1938.

Department of Animal Husbandry.

By Professor J. P. Sackville: "Selecting, fitting and showing beef cattle", Circular No. 22 of the College of Agriculture, University of Alberta, March, 1938; "Alberta feeds for finishing cattle", Souvenir Inaugural Issue of Canadian Cattlemen, June, 1938, p. 37.

By Professor J. P. Sackville and Dr. J. E. Bowstead: "Influence of nutritional and climatic factors on wool growth and quality", Canadian Journal of Research, v. 16, No. 6, pp. 153-165, June, 1938.

By Dr. J. E. Bowstead: "Economical feeding of dairy cows", The Cow Bell, v. 12, No. 5, p. 8, May, 1938.

Department of Bacteriology.

By Dean A. C. Rankin: Report of the Alberta Committee on Tuberculosis Research to the National Research Council of Canada, June 27th, 1938.

By Dean A. C. Rankin, Dr. P. R. Talbot, Dr. J. J. Ower and Dr. R. M. Shaw: The Immunizing Properties of B.C.G. Vaccine in Bovines, Report to the American Association for the Advancement of Science, Ottawa, June, 1938.

Department of Biochemistry.

By Dr. M. M. Cantor: "Hormones in Animal Breeding", Fur Trade Journal of Canada, 15, pp. 8-18, 1938.

By Dr. L. B. Pett and A. M. Wynne of the Department of Biochemistry, University of Alberta: "Studies on Bacterial Phosphatases: The Phosphatases of *Aerobacter Aerogenes*, *Alcaligenes Faecalis* and *Bacillus Subtilis*," Biochemical Journal, 32, pp. 563-566, 1938.

Department of Botany.

By Professor E. H. Moss: "Longevity of seed and establishment of seedlings in species of *Populus*", Botanical Gazette, 99, pp. 529-542.

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Department of Chemistry.

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Department of Civil and Municipal Engineering.

By Dr. C. A. Robb: "Canadian Steam-Electric Power Plants", paper presented at the annual meeting of The Engineering Institute in London, Ontario, February 2nd, 1938, published in The Engineering Journal, v. XXI, No. 3, March, 1938, pp. 129-143; Discussion on "Canadian Steam-Electric Power Plants" in The Engineering Journal, v. XXI, No. 6, June, 1938, pp. 291-297.

Department of Classics.

By Dr. W. H. Alexander: "Vosmet Rebus Servate Secundis", Classical Weekly, XXXI, 2, pp. 13-16; "Spe Longus: Horace, Ars Poetica, 172", Classical Journal, XXXIII, 4, pp. 226-228; "Word Order in Sophocles, Oedipus Tyrannus, 1430-1431", Classical Philology, XXXIII, 1, pp. 89-90; "De Imperio", Classical Bulletin, XIV, 6, pp. 41-42; "King-Myths, Ancient and Modern", Canadian Forum, March, 1938, pp. 413-5.

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Department of Dairying.

By Dr. H. R. Thornton and N. J. Strynadka: "Modified methylene blue reduction technic, American Journal of Public Health 27, p. 791-792, 1937; "The accuracy of the direct microscopic (Breed) count of bacteria and leucocytes in milk", Journal of Dairy Science 20, pp. 685-692, 1937.

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Department of Education.

By Dr. M. E. LaZerte: Co-author of "Number Highways", Book 3 and Book 4—Textbooks prepared for the use of Grades III and IV and used in the Alberta schools, Clarke Irwin and Company, Ltd., Toronto, 138; Book 3, pp. 2931+iv; Book 4, pp. 218+iv.

Department of English.

By Dr. C. R. Tracy: "Porphyria's Lover", Modern Language Notes, December, 1937.

By Mr. R. E. Mitchell: "The New Welsh Stage", article, Wales, September, 1937; "Panic or Porterhouse", play, Samuel French, March, 1938.

Department of Entomology.

By Professor E. H. Strickland: "Insect pests of grain in Alberta" (revised), Bulletin No. 24 of the College of Agriculture, University of Alberta, May, 1938, pp. 1-53.

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Department of Field Crops.

By K. W. Neatby and Mr. F. G. McCalla: "Correlation between yield and protein content of wheat and barley in relation to breeding", Canadian Journal of Research, C, 16, pp. 1-15, 1938.

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By Messrs. J. G. Malloch, W. F. Geddes, R. K. Larmour and A. G. McCalla: "The quality and grading of frosted wheat", Canadian Journal of Research, C, 15, pp. 567-592.

Department of Geology.

By Dr. J. A. Allan: "Salt Deposits at McMurray", Transactions Canadian Institute of Mining and Metallurgy, v. 40, 1937, pp. 614-628; "The relation of the geology to the soils in the Rainy Hills Sheet", Appendix I, Bulletin No. 28, College of Agriculture, University of Alberta, 1937, pp. 46-56.

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pp. 1-3, pl. 1; "Geology of South Nahanni River, N.W.T." (with A. E. Cameron and R. Ruedmann), *Canadian Field Naturalist*, v. 52, No. 2, 1938, pp. 16-21, 1 map, 1 pl.

By Dr. R. L. Rutherford: "Saskatchewan gravels and sands in Central Alberta", *Transactions Royal Society of Canada*, 1937, 3rd Series, v. XXXI, Sec. IV, pp. 81-85.

Department of History.

By Dean G. M. Smith: Contributor to "Canada and Her Great Neighbour", edited by Professor H. F. Angus, published by the Yale and Ryerson Presses for the Carnegie Endowment.

Department of Horticulture.

By Dr. J. S. Shoemaker: "Trees and Shrubs in Alberta", *Bulletin No. 29 of the College of Agriculture, University of Alberta*, pp. 1-132, 1938; "Delphiniums at the University of Alberta", *Yearbook of the American Delphinium Society for 1937*, pp. 36-37, 1938; "Trees and Shrubs for Alberta", *Canadian Horticulturist*, pp. 107-108, April, 1938; "Some investigations with the gladiolus in Alberta", *Quebec Gladiolus Society Yearbook*, pp. 29-30, 1938; "Gladiolus at the University of Alberta", *Canadian Gladiolus Society Annual*, pp. 109-111, 1938.

By Dr. J. S. Shoemaker and Mr. R. M. Adamson: "Use of the gladiolus for decoration in the home", *Quebec Gladiolus Society Yearbook*, pp. 49-51, 1938.

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By Mr. G. R. Ure: "Hardy spireas for the northwest", *Canadian Horticulturist*, pp. 145-146, May, 1938; "Drought-hardy annuals for the prairies", *Canadian Horticulturist*, pp. 63-64, March, 1938.

Department of Industrial Research.

By Professor Edgar Stansfield: "The burning of low rank Alberta coals—combustion and control", *The Engineering Journal*, *Engineering Institute of Canada*, July, 1937, pp. 545-554; *Eighteenth Annual Report of the Research Council of Alberta*, 1937; *Fuels Division* by E. Stansfield, W. A. Lang and J. S. Charlesworth.

Department of Mathematics.

By Dr. J. W. Campbell: Review—Analytical and Applied Mechanics (G. R. Clements and L. T. Wilson), *American Mathematical Monthly*, v. XLIV, No. 8, pp. 532-534, October, 1937; Review of *La Notion de Temps, Temps Physique et Relativité, La Dynamique du point matériel*, par Ernest Esclangon, Paris, Gauthier-Villars, *The Journal of the Royal Astronomical Society of Canada*, No. 7, v. XXXII, September, 1938, pp. 359-361.

Department of Medicine and Clinical Medicine.

By Dr. E. L. Pope: "Metastasis and Metastases", *Canadian Medical Journal*, March, 1938, v. XXXVIII, pp. 244-249.

Department of Philosophy.

By Professor John Macdonald: "Some suggestions towards a revised philosophy

of Education", John Adams Lecture, University of London, Studies, Oxford University Press, November, 1937; "The Community, First Steps in Sociology," Dent and Sons, June, 1938; "Inconsistency, Intellectual and Moral", University of Toronto Extension Bulletin No. 83, May, 1938; "The Belief in Luck," University of Toronto Extension Bulletin No. 85, May, 1938.

Department of Physics.

By Dr. R. J. Lang: Collaboration in writing the text-book, "Elements of Physics", by Merchant and Chant; Copp, Clark and Co., 1937.

By Henry N. Russell, Robert B. King and Dr. R. J. Lang: "The Third Spectrum of Cerium", Physics Review, 52, pp. 456-466, 1937.

Department of Political Economy.

By Assistant Professor H. D. Hewetson: "Does Idealism of Alberta Pioneers Foster Tendency to Experiment", Monetary Times, February, 1938, p. 173 and p. 187.

By Dr. Andrew Stewart: "Consumers' Expenditure on Food Commodities", mimeographed publication prepared by the Economics Division, Dominion Department of Agriculture; "Classification of Land: Sounding Creek Special Area, Alberta", mimeographed publication of the Economics Division, Dominion Department of Agriculture; "Report of the Special Committee on Farm Implement Prices, 1937", Canadian Journal of Economics and Political Science, v. 4, No. 1, February, 1938, pp. 92-99.

By Dr. Andrew Stewart and W. D. Porter: "Food Purchases by Families in Edmonton and Lacombe, Alta.", The Canadian Public Health Journal, February, 1938, pp. 58-66; "Seasonal Variations in Food Purchases", The Canadian Credit Institute Bulletins, 84, November, 1938, pp. 1-7.

By Dr. Andrew Stewart and John Boskie: "The Alberta Drought Area", The Canadian Credit Institute Bulletin, 1938.

Department of Soils.

By Dr. F. A. Wyatt and Dr. J. D. Newton: "Wooded Soils and their Management", Bulletin No. 21, University of Alberta, revised December, 1937.

By Dr. J. D. Newton and S. Malowany: "Effects of Steam Sterilization and re-inoculation on Physical Chemical and Biological Relationships of Soils", Contribution from Experimental Farms, Bacteriological Division, n.d., Ottawa, April, 1938, 11 p. mimeo.

By V. Ignatieff: "CCII—Distribution of Phosphatase Activity and Analysis of Growth in Canada Wonder Bean", Biological Journal, v. XXXI, No. 9, September, 1937, pp. 1611-1615; "Method for Determining Ferrous Iron in Soil Solutions and a Study of the Effect of Light on the Reduction of Iron by Citrate and Alpha Alpha Dipyriddy", Journal of the Society of Chemical Industry, v. LVI, October, 1937, pp. 407T-410T.

Department of Surgery.

By Dr. W. F. Gillespie: "The Clinical Problem of the Nodular Breast", Canadian Medical Journal, December, 1937, XXXVII, 6, pp. 555-558.

Department of Zoology.

By Dr. W. Rowan: "London Starlings and Seasonal Reproduction in Birds", Proceedings Zoological Society of London, Series A, v. 108, Pt. 1, 1938, pp. 51-77.

EXCERPTS FROM THE REPORTS OF ADMINISTRATIVE OFFICERS

The following excerpts from the reports of administrative officers give some indication of the manifold aspects of the work of the University.

Report of Dean W. H. Alexander of the Faculty of Arts and Sciences

Enrolment 1937-38.

The enrolment of undergraduate students under the jurisdiction of the faculty of Arts and Sciences during the session just ended reached a grand total of 692. Summer Session students, then enrolled entirely in this faculty, are not included in the above total, and information as to their numbers will be found later in this report under a separate heading. The figure of 692 mentioned above is to be set against that of 755 for the session of 1936-37. The fall is 63 which, by a curious coincidence, is the same figure as for last year. However, it will be found that practically all of this loss is accounted for under the B.A. degree. There is evidently an important change under way here, the full bearing of which cannot yet be determined.

Summer Session.

290 men and 114 women, in all 404, enrolled for the work of the Summer Session of 1937, distributed over 25 courses. This is a gain of 68 over the enrolment of 1936. It would appear that the enrolment of 1938 will be substantially the same, and the view may now reasonably be expressed that the Summer Session attendance will stabilize for some time in the neighbourhood of 400, since the pressure upon teachers to qualify for degrees is probably as effective now as it is ever likely to be.

The number of courses offered for 1938 in the Summer Session is 30. This represents the maximum effort of which the Summer Session is capable under existing circumstances, and indeed a slight retrocession might be advisable for greater financial security.

There will be present at the Summer School of 1938 four visiting professors: Professor W. McDonald of the University of British Columbia for English 59, Professor J. A. McDonald of the University of Saskatchewan for French 2, Professor George Stanley of the University of Mount Allison for History 2, and Professor Rufus Coleman of the University of Montana for a course in advanced English composition. This last appointment introduces the novel feature of a visiting professor from the United States participating in our summer programme, and may prove the basis of pleasant exchanges in the future.

This year will see the first application of the new plan whereby final examinations will be held at the end of the Summer Session. As I am to a considerable degree responsible for this innovation, I am remaining through the Summer Session to assume full responsibility for the administration of the new scheme and will

prepare a full report on its workings for my successor. So far as can be now known, the work of preparation on the part of prospective students for the summer courses through the use of syllabi provided by the University departments has been going on very satisfactorily. The Summer Session instructors have also been using station CKUA and the Alberta educational network to reach their students.

Changes in the Academic Programme.

It will be recalled that permission has been given by the Senate to increase the number of academic courses from four to five in the second year for the B.A. and B.Sc. courses, this change to become effective in September, 1939. The larger flexibility which this will provide, it is believed, will be of great assistance in drawing up student programmes of study in the future, and has already proved of value in arranging with the School of Education the academic courses of prospective teachers.

Officers of Instruction.

The officers giving instruction in this faculty number as follows, according to their respective grades: professors 30, associate professors, 10, assistant professors 9, lecturers 10, instructors 4, fellows 1, with sessional assistants and demonstrators in addition.

Report of Dean E. A. Howes of the Faculty of Agriculture

There has been another increase in the registration of the Faculty of Agriculture at this University, the freshman registration being the largest we have had in years. In this connection it might be mentioned that, through the Committee in charge of the Wheat Board Surplus, scholarships are being offered to ten students recommended from the Schools of Agriculture, each scholarship being worth \$100. This probably will mean a guarantee of at least ten freshmen from the Schools next year.

It might be pointed out that for employment in technical agriculture the M.Sc. degree is practically the minimum requirement. Eleven students have completed work for their M.Sc. degrees this year. A few of our students are shaping their courses to qualify for entrance to the School of Education.

The faculty of Agriculture wishes to express its appreciation of the donation of a gold medal by the Northern Alberta Local of the Canadian Society of Technical Agriculturists. This medal is awarded to the student taking the highest standing in the graduating class of the year. This medal was awarded also last year.

During the winter a short course was offered to the field men of the different mortgage and loan corporations in the Province and representatives were present from all over the Province. The number enrolled was 52. This is a new departure and was very satisfactory to all. The work consisted of lectures and demonstrations given by the directly agricultural departments, and the course was drawn up in co-operation with the executive of the provincial organization.

Following is a brief report by departments of work undertaken in addition to the regular academic work:

Department of Poultry.

Miss Milne resigned from this department, and during the past year the junior work was carried on by a graduate student.

Department of Entomology.

Outside work in connection with this department is sometimes very exacting due to the prevalence of insect pests in certain parts of the Province. The head of this department has been rendering valuable assistance to those who are combating the insect pest menace.

Department of Dairying.

In this department research in Dairying Bacteriology has been continued as usual.

The outstanding feature of the year was the four weeks' Creamery Short Course, offered to experienced butter-makers. Twenty-one students were enrolled. There is no doubt that this was the best short course that we have given to date. This course was made possible through the assistance and co-operation of the Dairy Branch of the Provincial Department of Agriculture.

Department of Agricultural Engineering.

The head of this department is making a deliberate and careful study of the regional use of farm machinery. It would appear that in this field we can be of the greatest service. This department offers practically the only clearing house in the province where opinions can be exchanged and discussions carried out without any handicap of self-interest or bias. It is not an easy task, but so far seems to have filled a real want in the reasonable prevention of mistakes in connection with the use of farm machinery. The interest in connection with the work of this department is indicated in the heavy demand for special bulletins issued in connection with the work of farm machines.

Department of Horticulture.

It has been a real pleasure to note the appreciation of the public generally in regard to the work of this department. If funds were available, very extensive work could be accomplished in the education of the people of our Province in connection with small fruits, vegetables and flowers. The annual Visitors' Day at the horticulture plots was very well attended, about 2,000 visitors being present on that day. Special mention might be made of the work carried on with gladiolus and roses and acknowledgment should be made of the splendid assistance offered in the way of donations from individuals and societies. This latter feature has been very satisfying indeed. As would be expected, this department maintains a very heavy correspondence in answer to questions sent in practically every day of the year.

Department of Soils.

The soil survey of the province has been actively continued during the past year in co-operation with the Prairie Farm Rehabilitation organization. Reports of our surveys are made as completed, being issued in bulletin form. Standard sets of experiments are maintained upon our own fields and there is nothing new to report at present.

This department has branched out considerably in connection with experimental work in the gray-wooded soil areas. The farm at Breton is still being operated for this purpose. The work has extended to many farms in that western area. We have

ten fields of experiment between Edmonton and Edson for check work in connection with our fertilizer experiments. We speak of this work as a co-operative fertilizer experimentation.

It might be repeated again this year that with such a large area in Alberta coming under the heading of gray-wooded soils we feel that it is imperative to devote as much attention as possible to the proper utilization of these soils.

Department of Field Crops.

Besides the different fields on the University campus now devoted to Field Crops experiments, this department is maintaining fields in different parts of the province for either local experiment or for check work. For some years work has been carried on at Fallis to test the standard crops and hybrids on the gray-wooded soils. We have now at least six other points where this work is being carried on. At Olds the School of Agriculture is carrying out for us these tests in an area west of that town. At Beaverlodge, the Superintendent of the Dominion Experimental Farm is looking after the work of our department. Other places that might be mentioned are Athabaska, Warburg, Mellowdale and Bon Accord.

Mention might be made of a few other outstanding problems that are now being investigated by this department. One important problem is the checking up on different methods of seed treatment to prevent disease. The advent of organic mercury dusts has rendered this work very much more encouraging. Another important field is that of alfalfa breeding. This important crop is gaining ground rapidly in the province. Other breeding work is being carried on with timothy and red clover. Of far-reaching importance are the experiments with different pasture mixtures. This represents a phase of agriculture that has been too long neglected in Alberta—the growing of grasses and forage crops. One of the most important problems in hand is that of wheat breeding. This is largely a northern problem, involving close scrutiny as to quality, and perhaps what is most difficult of all, an attempt to produce an earlier variety. It is hoped during the coming year to publish in bulletin form a report on the results of our investigations to date.

Department of Animal Husbandry.

The usual research work in connection with live stock is being carried on, as in other years, this having to do with care, nutrition, disease and production. In this connection we gratefully acknowledge substantial help from the National Research Council.

The University was once more successful in winning the Grand Championship in the Market Class at the Toronto Royal Exhibition. This championship is generally looked upon as the highlight of the live stock show at large exhibitions. The University has won this award six times since we began to exhibit.

At the Calgary Spring Show our new Percheron stallion won the Grand Championship in a class of twenty-six entries. We exhibited several of his progeny, all of which figured in the prize winning. It may be mentioned that there is an increased interest in the breeding of heavy horses in this province.

The annual Feeders' Day was held in June and was very successful. The attendance was around 500. The Farm Young People made this a part of their week's programme.

Extension Work.

(a) Cordial relationship with the Provincial Department of Agriculture has been maintained as stated in previous reports. The Department uses members of the staff of the Faculty of Agriculture in connection with lectures at short courses, individual lectures, school fairs and club work. This has enabled the members of our staff to maintain a very desirable contact with the farming areas of the province.

(b) Our bulletin service has been very satisfactory during the past year, although the number sent out through the Department of Extension was not as large as the year previous. This is due to the fact that considerable weeding out has been done in regard to rather unnecessary distribution in this field. The following bulletins, most of them reprints, were made ready for distribution during the year:

Bulletin No. 9—Ropework on the Farm.

No. 17—Power Problems on the Farm.

No. 21—Wooded Soils and their Management.

No. 22—Swine Production in Alberta.

No. 27—Gladiolus Culture.

No. 28—Soil Survey of Hairy Hills Sheet.

Circular No. 22—Selecting, Fitting and Showing Beef Cattle.

Leaflet No. 2—Cultural Methods for Growing Timothy in Alberta.

No. 3—Cultural Methods for Growing Alsike in Alberta.

No. 6—Application of Poison Dust.

No. 6a—Contact Insecticides.

No. 10—Alfalfa.

No. 11—Sweet Clover.

No. 16—Crested Wheat

No. 19—Methods for Controlling Insect Pests in the Home.

(c) We would again express appreciation of the opportunity offered us for contact with people on farms through the service of CKUA. In the leaflet issued by the Department of Extension it will be seen that an increasing number of lectures are being given by the members of the Faculty of Agriculture, in the Farm and Home Forum, in the Animal Science Series and in the Plant Science Series. We have been glad to have co-operation from members of the Provincial and Federal Departments of Agriculture in this connection.

(d) Replies to enquiries have resulted in a definite increase in correspondence. This applies to practically every department within the faculty.

Report of Dean A. C. Rankin of the Faculty of Medicine

Since 1924, 273 doctors of medicine have graduated from the University. One hundred and fifty of these are located in Alberta and are available to the public, and there are 75 graduates in the provinces of British Columbia and Saskatchewan. All of which indicates the contribution the University is making to health services in this province and in Western Canada. This year's graduating class of 31 students have all secured hospital internships, 18 in the Edmonton hospitals, 5 in Vancouver, and 1 each in Lamont, Ponoka, Calgary, Regina, Detroit, Hamilton, Montreal and Baltimore, an indication of professional interest and appreciation of responsibility on the part of these graduates.

There were 221 students registered in medicine during the past session. Despite the application of our enhanced academic standards for entrance and the limitation in the number admitted to second year—which has enforced the turning away of many students—we are hampered by lack of accommodation in the preclinical years and, as few students now transfer to other schools at the end of third or fourth years, we have also been considerably inconvenienced in the clinical years by the number of students requiring instruction in relation to our physical facilities and the amount of available clinical material. I must take this opportunity of pointing out the seriousness of existing conditions brought about by the financial stringencies imposed on the University authorities by present economic conditions. We require expansion in our physical equipment and in our academic staff to cope properly with conditions. These difficulties which most unfortunately might jeopardize our position amongst the Canadian schools are almost entirely due to want of funds.

As our responsibilities are intimately associated with the thorough training of our undergraduates, the necessity of a further reduction in the number of students admitted to the second year (at present set at 40) should be considered, if admission to advanced standing in the higher years is to continue, and if increase in clinical accommodation is not available.

What has been said about medicine applies somewhat also to dentistry. The School had the largest registration as yet in the session under consideration. Apart from the first year, 65 were in attendance, and I am informed by Dr. Bulyea, the Director of the School, that "this increase was chiefly due to a larger number of students coming from another school to take their final year. The prospects are that for the next session the classes will be up to the full capacity of the School, and there will be no room for any of these special students. The clinical services have been extended to a larger number of patients, and there seems to be ample material for the practice of the students. A large percentage come from people who would not otherwise be financially able to obtain dental attention." A control of admission to advanced standing will improve conditions here.

During the past session the final year of the B.Sc. in Nursing has been made available and nine students have successfully passed the examinations in Public Health Nursing. Miss Agnes J. Macleod, B.A., B.Sc., M.A., R.N., recently appointed Director of the School of Nursing, is largely responsible for the organization and success of the course. Here again the want of funds has been acutely felt.

It is not to be expected that under these conditions executive officers have been free from criticism, and it is pleasant to be able to record that despite all complete co-operation has been maintained.

In September next, Dr. D. G. Revell, who has filled the chair of Professor of Anatomy since 1913, is due for retirement. It is fitting that his long service to the University should be brought to your attention.

Medicine.

Status.	Men.	Women	Total.
First Year	28	2	30
Second Year	43	2	45
Third Year	36	5	41

Fourth Year	37	1	38
Fifth Year	33	3	36
Sixth Year	31	.....	31
	—	—	—
	208	13	221

Note.—If we add 59 students registered in the first three years
in Arts and Medicine we have a total of , 59

280

Dentistry—Men:

First Year	9	
Second Year	14	
Third Year	14	
Fourth Year	19	
Fifth Year	19	
	—	
	75	

Note.—If we add 6 students registered in the Combined
Course in Arts and Dentistry we have 81 students pro-
ceeding to a degree in Dentistry 6

81

B.Sc. in Nursing.

First Year	20	
Second Year	11	
Third Year	1	
Fourth Year	12	
Fifth Year	9	
	—	
		53

Diploma Course in Nursing 83

497

Report of Dean R. S. L. Wilson of the Faculty of Applied Science

Undergraduates in this faculty numbered 260 as compared with 275 in the previous session and 288 before that. The new requirement of senior matriculation for admission and consequent abandonment of pre-architecture and pre-engineering accounts practically for the reduced number.

The distribution among "years" and departments is as follows:

First Year—		
Architecture .....	.....
Engineering	84	
	—	84
Second Year—		
Architecture	3	
Engineering	72	
	—	75

Third Year—

Architecture	4	
Chemical Engineering	15	
Civil Engineering	7	
Electrical Engineering	12	
Mining Engineering	26	
	—	64

Fourth Year—

Architecture	1	
Chemical Engineering	14	
Civil Engineering	2	
Electrical Engineering	9	
Engineering Physics	1	
Mining Engineering	10	
	—	37

260

Combined—

Arts and Architecture	1	
Arts and Engineering	2	
	—	3

The academic progress of students was generally satisfactory.

Graduates are finding positions, but not quite so easily as last year. The demand for graduates in Mining Engineering is especially good.

It is a pleasure to record my grateful appreciation of the work of the members of the staff, especially that of Professor Adam who now retires after many years of faithful and efficient service.

Report of Dean J. A. Weir of the Faculty of Law

During the year 59 students were registered in the faculty of Law. Of these, 21 were in the third year, 21 in the second year, and 17 in the first year. Twenty students were recommended to the Senate for the degree of Bachelor of Laws.

Last September, the requirements of an Arts degree or its equivalent on admission to the Law School was put into effect, and the Law Society likewise then introduced a similar requirement. The change had no appreciable effect on the number entering the first year. The quality of the students entering the first year under the new requirements appears to be slightly above the average of years past. There was not a single failure in any course in that year. This may be merely *post hoc* and not *ergo propter hoc*.

The question of entrance requirements to Law Schools is now being seriously discussed both in Canada and the United States. In the better American Law Schools, a diversity of requirements exists. The Harvard Law School requires an Arts degree on entrance, followed by a three year Law course. Chicago and Minnesota offer a four-year Law course with a prerequisite of two years of college work in each case. There seems to be a tendency in the United States to lengthen

the Law course to four years, including in the Law years courses in subjects related to Law which are now ordinarily taken in the Arts faculty. It is generally felt that a full Arts course on entrance followed by four years in Law is too long. The course would be too expensive, and the view is sometimes expressed that it is undesirable to keep the students for eight years in a university. It is said that such a system is undesirable because the student's viewpoint may become too academic before actual contact with practice. In some cases it has been bluntly said that the extended Arts course which is forced on the student sometimes develops habits of mental indolence.

The Harvard Law School has just adopted a tentative scheme in which an Arts degree is required, followed by three years in Law. It is admittedly provisional. There are suggestions that three years of Arts may later be accepted for admission and the Law course lengthened to four years. These experiments are of interest here. Our present arrangement, although recently introduced, need not be final.

The Benchers of the Law Society are making arrangements for students during their period under articles after graduation taking part in the work of assisting needy litigants.

Associate Professor M. M. McIntyre has been granted sabbatical leave for next year. His work will be taken over by other members of the staff.

**Report of Professor G. M. Smith, Chairman of the Committee
on Graduate Studies**

During the academic year 1937-38, 90 students have been working under the jurisdiction of the Committee on Graduate Studies.

The distribution of students according to degrees sought has been as follows:

Degree—	Men.	Women.	Total.
Master of Arts	10	36	46
Master of Science (Arts) .....	.....	8	8
Master of Science (Agriculture) .....	.....	17	17
Bachelor of Education	1	5	6
Special Graduate Students	4	10	14
	—	—	—
	15	76	*91
	—	—	—

Graduate students at the 1937 Summer Session:

In candidature for higher degrees	3	27	30
Special graduate students .....	.....	4	4
	—	—	—
	3	31	34

*One student enrolled as a candidate for both the M.A. and the B.Educ. degrees, so that the total registration for the regular session has been 90.

Seventy-four of the students registered in the regular session of 1937-38 were graduates of the University of Alberta. The remainder were from sister universities.

Report of the Provost, Professor J. M. MacEachran

The Students' Union.

The affairs of the Students' Union have been conducted in a most satisfactory way during the session. I should like to mention specially the very whole-hearted way in which Mr. A. McEwen, President of the Union, and the members of the Students' Council have co-operated with the administrative authorities of the University. At the last meeting of the Committee on Student Affairs, Mr. McEwen presented a very fine report on the various activities of the student body and the contributions which the different organizations are endeavouring to make to the life of the University. I have no hesitation in saying that these contributions are very considerable, and that they are bound to exert a very beneficial influence in broadening the interests and increasing the sense of responsibility of those graduates who go out from these halls.

(1) *Finances*.—The session ended with a surplus of \$1,477.52 as at March 31st, 1938. This will permit of an addition of about \$1,000.00 to the Building Reserve Fund, which at the above date stood at \$12,750.00.

(2) *Athletics*.—During the session the Constitution of the Men's Athletic Association has been amended to provide for the formation of a Men's Athletic Board. On this Board there will be three representatives of the faculty, the Director of Men's Athletics, and a representative of the Alumni Association. As these will be more or less permanent members, and as certain student members will hold office for three and two years, it will be possible to secure greater continuity of policy than has been heretofore possible when the personnel of the executive changed every year.

Western Intercollegiate championships in Men's Hockey, Women's Basketball, and Tennis were won during the year, and a very creditable showing was made in Rugby, Track and Men's Basketball.

(3) *Literary Society*.—Special mention should be made of the success of the Dramatic Society in winning first place with their play "The Happy Journey" in the Provincial Festival at Calgary, and the right to compete in the Dominion Festival at Winnipeg. The cast was highly complimented by the English adjudicator, Mr. Malcolm Morley; and Miss Sheila Morrison was awarded the cup as the best actress. For the annual Spring Play, Shakespeare's comedy, "The Taming of the Shrew," was chosen, and produced with distinct success. Much credit for the success of the Dramatic Society was due to the excellent direction of Mr. Mitchell, who has recently joined the faculty and who will give special attention to dramatic art in the University.

The Philharmonic Society achieved marked success in the production of Gilbert and Sullivan's comic opera, "The Gondoliers." Convocation Hall was filled to capacity for two evening performances and a Saturday afternoon matinee. Much credit for the quality of the performance was due to Mr. A. P. Andrew, a student in Law, who, in spite of the fact that it was his first experience in conducting, won the admiration of performers and audiences alike.

The Debating Society and the Political Science Club have extended their activities during the session, and in my judgment are doing a great deal to

stimulate an intelligent interest in social and political problems as well as in the art of public speaking.

(4) *Discipline*.—Professor J. T. Jones, Professor in Residence, in his report, expressed great satisfaction with the discipline in the men's residences during the year. The Chairman of the Men's House Committee, Mr. Florendine, showed rare tact and good judgment in discharging his duties and was very loyally supported by other members of the committee and by the students generally. I have found him most anxious to co-operate in maintaining high standards of conduct and at the same time in preserving the democratic spirit which has always been characteristic of student government in the residence. I am very glad to say that not a single student in residence has come up for discipline during the session.

I am glad to report also that, though the demand for social functions continues to increase, we have continued to hold the larger functions in the University buildings where they can be properly supervised. Smaller club functions are permitted to be held in halls off the campus approved by the University. We have been very fortunate in being able to maintain high standards in the conduct of these functions.

Early in the session an old controversy as to the cultural superiority of the medical students and the engineering students reached a climax in a fight which took place in and about the medical building. The whole affair was good natured and apparently caused much enjoyment to the participants and amusement to onlookers. When, however, the damages to property were reckoned and fines levied, the ardour for the continuation of such contests in the future was considerably dampened. The result was that the Students' Council, after consulting with the Presidents of the Medical Club and the Engineering Society, decided to put a ban on such fights in and about the University buildings and passed a resolution to that effect. I am therefore asking the Senate, in adopting this report, to confirm that resolution.

The Report of the Librarian, Mr. D. E. Cameron

The work of the Library has been carried on under the usual condition as to pressure on our accommodation, to which, however, the staff has learned to adapt itself with some ingenuity. Some shelving space has been saved by replacing old wooden stacks with steel, and this will be continued according to need, but close storage of the less used books will soon have to be adopted.

Before the winter term, we must encroach on the reading space of the Law Library with floor stacks, and other devices for the use of space must be grudgingly resorted to.

During the year Miss M. Barker resigned and was succeeded by Miss M. O'Connor, one of our own graduates who had completed her library training. Miss D. Fraser was also added to the staff, in anticipation of the resignation of Miss Ennis, who leaves us now.

The change in Summer School arrangements has placed on the Library the duty of meeting the wants of last year's Summer School students and this year's during the past winter. The system of circulating books adopted has enabled the

Library to meet all calls on it from this source, and to put in every student's hands all books required for essays or examinations.

For the past two years the pressure on reading space and service during the Summer School term has been exceedingly great. Last summer for the first time the Common Room was equipped with shelving, tables and chairs, and the greater part of the Normal School books were administered from that room. This year again some 250 feet of shelving will be temporarily installed in the Common Room for that purpose.

Such routine work as binding has been continued as usual during the year. Marked increase has been noted in some aspects of the work, as, for example, in communication with other universities for exchange of duplicates and inter-library loans, and many courtesies have been received from other institutions. For the purpose of making easier and more extensive the use of periodical files in larger libraries, consideration is being given to the acquisition of the necessary apparatus to enable us to use the economical microfilm method.

The Librarian desires to thank the staff and students for their courtesy and co-operation, and to express his appreciation of the willing and satisfactory work of the Library staff.

The number of accessioned books is now 63,789.

The Library now possesses, or holds for the University, the portrait of Dr. R. C. Wallace by Mr. Petley Jones, and that of the late Dr. E. K. Broadus by Mr. N. de Grandmaison, which was presented by the members of the Department of English and former students. To these has just been added the portrait of Dean Alexander by Mr. de Grandmaison, the gift of the graduating class of 1938.

Many donations have been received during the year, and duly acknowledged by the Library.

***Report of Mr. Donald Cameron, Acting Director, Department of Extension**

Statistical Survey.

Number of lectures and moving picture programs	121	
Aggregate attendance		15,200
Radio lectures	480	
Language lessons broadcast	163	
Plays broadcast	32	
Dramatized talks by University Dramatic Society.....	15	
Musical programs broadcast	179	
Programs released by CKUA	235	

Library and Debating Service.

No. of Regular Libraries circulated	220	
No. of Special Libraries circulated	167	
	—	387
Travelling Library circulation		14,345

No. of groups receiving Travelling Libraries:

Special	80	
Regular	140	
Open Shelf circulation:		
Books		24,051
Pamphlets and clippings		1,800
Periodicals		836
Communities supplied with plays	651	
No. of plays (adult, juvenile) sent out		3,266
No. of vols. plays collections (adult, juvenile) sent out		1,942
No. plays sent to Banff	1,475	
Package Libraries for debaters		937

Visual Instruction.

No. of times lanterns loaned	113	
Sets of lantern slides circulated	1296	
No. of times used	2,210	
Aggregate attendance lantern lectures		135,250
Sets of moving picture films circulated	863	
No. of times used	1,280	
Number of reels in sets	4,466	
Aggregate attendance at moving picture programs		147,171
Schools using moving pictures regularly (Rural)	47	
Schools using moving pictures occasionally (Rural)	101	
	—	148
No. of sets of film-slides (Picturols) in Library	186	
No. of times circulated	194	
No record of times used or attendance.		

Conference.

University Week for Farm Young People	110	
Leaders	7	
	—	117

Study Groups.

General Economics, Political Science, Social Planning, and Co-operation	200	
Radio course in handicrafts (stitching on canvas and quilting)	600	
	—	800

Alberta School of Community Life:

Attendance	81
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Youth Training Schools.

No. of schools	27	
Total attendance		2,705

Publications.

Press Bulletin:

No. of issues	3	
Average circulation	7,833	
Aggregate circulation		23,500

Agricultural Publications:

No. sent out during the year		21,084
Individual requests received	3,008	
Total number sent out since Jan. 1, 1923	238,961	
Bulletins distributed prior to Jan. 1, 1923	25,000	

Fine Arts.

Enrolment in Master piano course, Edmonton	22	
Students registered in class in Dept. of Education	23	
Students registered in class in Dept. of Education (non-university)	16	
Enrolment at Banff School of Fine Arts	195	
Enrolment at Art Schools, Vegreville and Vermilion	33	
	—	289
Festivals receiving adjudication (drama)	21	
Festivals receiving grants—music	26	
Plays read and descriptions filed	260	

Recapitulation.

Total aggregate attendance at lectures, lantern slide lectures, moving picture programs, Farm Young People's Week, Study Groups, Banff School of Fine Arts, Classes in Dramatics, Vermilion and Vegreville Art Schools, Alberta School of Community Life, Youth Training Schools, Master Piano class	301,613
Total circulation of books, travelling libraries, package libraries, pamphlets, plays, periodicals	47,177
Total circulation of Press Bulletins and Agricultural publications	44,584
*Persons seeking fuller information respecting the activities and services of the Department of Extension will find it in the current Annual Report of the Department.	

Report of Dr. A. C. Rankin, Director of the Provincial Laboratory January, 1937, to December, 1937

I have the honour to submit the following report of the work carried out in the Provincial Laboratory for the year 1937.

During the time under consideration there has been an increase of approximately 16,000 examinations; 26,295 bloods have been examined for the Wassermann test as compared with 23,042 of the previous year. The examinations in connection with venereal diseases have increased by 4,882 examinations.

There are 86,765 chicken blood examinations included in work undertaken for the Poultry Department of the Provincial Department of Agriculture, for which

the Provincial Laboratory was paid. Altogether the total number of examinations are 145,882 as compared to 129,947 in the previous year.

The demands on the Laboratory continue to increase and to broaden in character. The staff are frequently required to carry out examinations which may have, at the most, only an indirect relationship to public health. As already pointed out, if a demand for such work is to continue, some funds should be made available in order that the necessary staff, equipment, etc., may be secured. It is unfortunate that under such circumstances the regular public health work of the laboratory is hampered to some considerable extent.

It is quite evident that the demands on the laboratory are now such that we have outgrown our physical accommodation, etc. Work is constantly being carried out in crowded and unfavourable conditions which can only be remedied by physical expansion and additions to the staff. I wish to point out particularly that despite these conditions the staff of the laboratory has been carrying on for several years loyally and efficiently.

Report of Mr. J. A. Kelso, Director of the Industrial Laboratories and Provincial Analyst

In all, 4,510 examinations and analyses of various substances were carried out during the year.

Evidence was given in the various courts of the Province as required under Provincial and Dominion Acts. Investigations were carried out for several government departments and for police officers.

The usual assistance was given prospectors and many specimens examined for them.

As in previous years analyses were made for various University departments.

